

**University of Southern California**  
**VITERBI SCHOOL OF ENGINEERING**

Master of Science in Chemical Engineering  
*Program Learning Objectives*

The purpose of the USC Viterbi School of Engineering Master of Science program in Chemical Engineering is to produce graduates who are broadly educated as well as highly adaptable. Chemical Engineering is the only engineering discipline that makes extensive use of chemical transformations (reactions) in addition to physical transformations (refining, molding or machining) to achieve added value. Thus, we strive to prepare students to be employed in a wide variety of manufacturing industries, from the basic chemical, materials, energy, food, pharmaceutical and microelectronics industries to the myriad consumer product industries. The Master of Science degree in Chemical Engineering is often a terminal degree. The learning objectives for the Master of Science degree program in Chemical Engineering:

- Upon completion of the USC Master of Science degree program in Chemical Engineering, students will be able to obtain employment in organizations where physical, chemical or biochemical transformations are utilized to produce products and services that benefit society.
- Upon completion of the USC Master of Science degree program in Chemical Engineering, students will be able to engage in continuous personal and professional development through life-long learning.
- Upon completion of the USC Master of Science degree program in Chemical Engineering, students will be able to assume leadership roles in their employment organization.